**Angle Relationships, Part 1** Name:

Rodriguez/Geometry

I know that you remember these things!

We measure angles in DEGREES. What’s a degree?

|  |  |  |
| --- | --- | --- |
| **Angle type** | **Degree measure** | **How it could look…** |
| Acute |  |  |
| Obtuse |  |  |
| Right |  |  |
| Straight |  |  |

Angle notation, and how angles are made:

**Important Angle Relationships**

1. **Complementary angles**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Examples:

and

2. **Supplementary angles**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Examples:

and

3. **Linear pair**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example:

4. **Vertical angles**:

Vertical angles are shown in the figures below:

What’s special about them?

5. **Angles meeting at a point:**



**Putting relationships together**: Use this diagram for these exercises.



1. Name two angles that have the same measure:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Name two other angles that have the same measure:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Name two angles that make a linear pair:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Name two other angles that make a linear pair:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Mark all sets of vertical angles that appear in the figure.

6. Mark all sets of supplementary angles that appear in the figure.

7. Suppose you knew that m∠BCG = 68**°**. What other angles can you find? (Find them!)

8. Suppose you knew that m∠EDA = 108**°**. What other angles can you find? (Find them!)

9. Suppose you knew m∠CAD = 34**°**. What other angles can you find? (Find them!)